

What is claimed is;

1. A hand-thrown toy parachute comprising a canopy, a hollow stick, a plurality of rigging lines which suspend the hollow stick from the canopy substantially at the center thereof, a weight which is enclosed in the hollow stick to be movable back and forth in the longitudinal direction of the stick under its gravity, and a guide line which is connected to the top of the hollow stick at its one end and to the center of the canopy at its the other end.
- 10 2. A hand-thrown toy parachute as defined in Claim 1 further comprising a stick bearer which is provided on the under surface of the canopy at the center thereof to bear the top end of the stick to easily release the same under the gravity of the stick and the weight.
- 15 3. A hand-thrown toy parachute as defined in Claim 2 in which the stick bearer is in the form of a cup open downward and can be loosely engaged with the top end portion of the hollow stick so that the top end portion of the hollow stick can be disengaged from the stick bearer under the gravity of the stick and the weight.
- 20 4. A hand-thrown toy parachute as defined in Claim 1 in which the rigging lines are connected to the stick by way of a harness.
5. A hand-thrown toy parachute as defined in Claim 1 further comprising a head mounted on the upper surface of the canopy opposite to the stick.

6. A hand-thrown toy parachute as defined in Claim 2 further comprising a head mounted on the upper surface of the canopy opposite to the stick bearer.

7. A hand-thrown toy parachute as defined in Claim 6 in  
5 which at least one of the bottom face of the stick bearer and the top end face of the stick is an inclined surface so that when the top end of the stick is engaged with the stick bearer with the top end face of the stick in surface to surface contact with the bottom face of the stick bearer, the central axis of  
10 the head is inclined with respect to the axis of the stick.

8. A hand-thrown toy parachute as defined in Claim 1 further comprising a wing attached to the outer side surface of the canopy to open toward the center of the canopy when the canopy is folded around the stick.

15 9. A method of manufacturing a hand-thrown toy parachute comprising a canopy, a hollow stick, a plurality of rigging lines which suspend the hollow stick from the canopy substantially at the center thereof, a weight which is enclosed in the hollow stick to be movable back and forth in the  
20 longitudinal direction of the stick under its gravity, and a guide line which is connected to the top of the hollow stick at its one end and to the center of the canopy at its the other end, the method comprising the steps of  
forming the stick in a stick nose portion, a cylindrical  
25 stick body, and a stick grip portion by a tube of light-weight resin,

placing the weight in the stick body to be movable back and forth in the longitudinal direction of the stick body under its gravity, and sealing the opposite ends of the stick body by heat forming a stopper on opposite ends thereof,

5 rounding the upper end of the stick nose portion and expanding the lower end portion of the same,

forming a grip on the lower end portion of the stick grip portion and expanding the upper end portion of the same,

force-fitting one end portion of the stick body in the 10 expanded lower end portion of the stick nose portion,

force-fitting the other end portion of the stick body in the expanded upper end portion of the stick grip portion, and

smoothing the junctions between the stick nose portion 15 and the stick body and between the stick grip portion and the stick body,

thereby forming the stick which is suitably balanced in weight.

10. A method as defined in Claim 9 further comprising 20 the steps of

coating an upper peripheral surface of the stick body with adhesive,

preparing a harness which is formed of light and flexible film and has a plurality of radial arms and in which nicks are 25 cut to extend from the center of the harness,

preparing a harness mounting jig comprising a harness

mounting table having a circular and horizontal upper surface and a tubular portion which vertically extends downward from the center of the harness mounting table,

spreading the harness over the harness mounting table  
5 of the harness mounting jig with the center of the nicked portion of the harness aligned with the center of the tubular portion of the harness mounting jig,

pressing a retainer plate having a central opening is  
against the surface of the harness mounting table with its  
10 central opening aligned with the tubular portion to hold the harness therebetween, and

inserting the stick into the tubular portion of the harness mounting jig so that the triangular portion of the harness defined by the nicks are bonded to the outer peripheral  
15 surface of the stick by the adhesive.

11. A method as defined in Claim 9 further comprising  
the steps of

preparing a stringing jig comprising a canopy stringing table for connecting one ends of the rigging lines to the canopy,  
20 a harness stringing table for connecting the other ends of the rigging lines to the harness and a stick holding tube provided on the harness stringing table at the center thereof, the canopy stringing table being rotatable and the harness stringing table being supported above the canopy stringing table with its axis  
25 aligned with the axis of the canopy stringing table,

spreading and placing the canopy on the canopy stringing

table and bonding one ends of the rigging lines which have been cut in the same lengths to the canopy by adhesive in sequence, while intermittently rotating the canopy stringing table,

5 inserting the stick body provided with the nose portion and the harness into the stick holding tube from the nose portion so that the arms of the harness are radially projected from the fixed stick body, and

10 connecting the other ends of the rigging lines the one ends of which have been connected to the canopy to the respective arms of the harness.